AMENDMENTS TO THE CLAIMS

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1. (Canceled)

2. (Previously presented) A method of tunneling a transaction based protocol through a generic Internet protocol (IP) transport, the method comprising: providing a generic messaging structure that includes a transport protocol, a message buffer, a source-address field and one or more data fields for transparent routing of a user protocol over the IP transport during a host-to-host communication or telecommunication session;

providing an application program interface to the generic messaging structure, the interface including a mechanism for a user to choose a desired transport and associated protocol for transparently routing the user protocol over the transport in accordance with the chosen transport protocol within the one or more data fields;

creating a base class library including plural defined source and header files, and providing a mechanism for deriving a transaction-based protocol-specific class that is compatible with the base class library, the transaction-based protocol-specific class further being derived based in part on the chosen transport protocol.

- 3. (Previously presented) The method of claim 2, wherein the transaction-based protocol-specific class is derived using an object-oriented inheritance based mechanism.
- 4. (Previously presented) The method of claim 2 including compiling the transaction-based protocol-specific class when a transaction and the transport protocol are determined.

A method of tunneling any related data-, control-, or 5. (Currently amended) routing-related protocol through a generic Internet protocol (IP) transport, the method comprising:

creating a base class library including plural defined source and header files, the base class library further including base class constructors of virtual, copy, and assignment, and generic access methods;

choosing a transport protocol for transparently routing a user protocol over the transport; and

providing a mechanism for deriving a transaction-based protocol-specific class that is compatible with the base class library, the transaction-based protocol-specific class further being derived based in part on the chosen transport protocol, wherein the transaction-based protocol-specific class is derived using an object-oriented inheritance based mechanism.

The method of claim 5 which further comprises: 6. (Currently amended) providing a generic messaging structure that includes-a the transport protocol, a message buffer, a source-address field and one or more data fields for transparent routing of-a the user protocol over the IP transport during a host-to-host communication or telecommunication session, and

providing an application program interface to the generic messaging structure, the interface including a mechanism for a user to choose a desired transport and associated protocol for transparently routing the user protocol over the transport in accordance with the chosen transport protocol within the one or more data fields.

The method of claim 5, wherein the transaction based 7. (currently amended) protocol-specific class is derived using an object oriented inheritance based mechanism which further comprises:

providing an application program interface to a generic messaging structure, the interface including a mechanism for a user to choose a desired transport and associated protocol for transparently routing the user protocol over the transport in accordance with the chosen transport protocol within the generic messaging structure.

The method of claim 7 further including: A method of 8. (Currently amended) tunneling any related data-, control-, or routing-related protocol through a generic Internet protocol (IP) transport, the method comprising:

creating a base class library including plural defined source and header files, the base class library further including base class constructors of virtual, copy, and assignment, and generic access methods;

providing a mechanism for deriving a transaction-based protocol-specific class that is compatible with the base class library, the transaction-based protocol-specific class further being derived based in part on the chosen transport protocol; and

compiling the transaction-based protocol-specific class prior to a run-time selection of the chosen transport protocol, and

selecting at run-time the pre-compiled transaction-based protocol-specific class for the chosen transport protocol, wherein the transaction-based protocol-specific class is derived using an object-oriented inheritance based mechanism.

- An application programming interface for transparently 9. (Previously presented) routing data between hosts in an Internet protocol (IP) transport, the interface comprising:
- a message buffer data structure defining a protocol-generic parent class, message, source-address and data fields for a chosen transport protocol;
- a message creation mechanism for creating a message and adding it to the message buffer data structure; and
- a protocol creation mechanism for deriving a protocol-specific child class based on the chosen transport protocol that renders new protocol-specific sub-fields of said protocol field of said message buffer data structure.
- The interface of claim 9 in which the protocol-specific 10. (Previously presented) child class is derived using an object-oriented inheritance based mechanism.
 - The interface of claim 9 further including: 11. (Previously presented)

compiling the transaction-based protocol-specific class prior to a run-time selection of the chosen transport protocol, and

selecting at run-time the pre-compiled transaction-based protocol-specific class for the chosen transport protocol.

- 12. (Previously presented) The interface of claim 10, wherein said message creation and protocol creation mechanisms include computer-readable and computer-executable software instructions.
- 13. (Original) The interface of claim 12, which includes software source code and headers in C/C++ programming language form.

14. (Canceled)

15. (Previously presented) A computer-readable medium containing a program for tunneling a transaction based protocol through a generic Internet protocol (IP) transport, the program comprising:

instructions providing a generic messaging structure that includes a transport protocol, a message buffer, a source-address field and one or more data fields for transparent routing of a user protocol over the IP transport during a host-to-host communication;

instructions for providing an application program interface to the generic messaging structure, the interface including a mechanism for a user to choose a desired transport and associated protocol for transparently routing the user protocol over the transport in accordance with the chosen transport protocol within the one or more data fields;

instructions for creating a base class library including plural defined source and header files, and

instructions for providing a mechanism for deriving a transaction-based protocolspecific class that is compatible with the base class library, the transaction-based protocolspecific class further being derived based in part on the chosen transport protocol. 16. (Currently amended) A computer-readable medium containing a program for tunneling a data-related protocol through a generic Internet protocol (IP) transport, the program comprising:

instructions for creating a base class library including plural defined source and header files;

instructions for providing a mechanism for deriving a transaction-based protocolspecific class that is compatible with the base class library, the transaction-based protocolspecific class further being derived based in part on the a chosen transport protocol;

instructions for compiling the transaction-based protocol-specific class prior to a runtime selection of the chosen transport protocol; and

instructions for selecting at run-time the pre-compiled transaction-based protocolspecific class for the chosen transport protocol.

17. (Currently amended) The computer-readable medium in accordance with claim 16, which computer-readable medium further comprises:

instructions for providing a generic messaging structure that includes a transport protocol, a message buffer, a source address field and one or more data fields for transparent routing of a user protocol over the IP transport during a host to host communication, and

instructions for providing an application program interface to the a generic messaging structure, the interface including a mechanism for a user to choose a desired transport and associated protocol for transparently routing the a user protocol over the transport in accordance with the chosen transport protocol within the one or more data fields generic messaging structure.

18. (Previously presented) The method of claim 2 wherein the transport protocol is operated on by a signaling function and wherein the user protocol may be routed over the transport without a switching function.

- 19. (Previously presented) The method of claim 2 including populating a message structure of the transaction-based protocol-specific class with tag-length-value (TLV) trios when the transaction-based protocol-specific class is derived.
- 20. (New) The computer-readable medium in accordance with claim 16, which computer-readable medium further comprises:

instructions for providing a generic messaging structure that includes the transport protocol, a message buffer, a source-address field and one or more data fields for transparent routing of a user protocol over the IP transport during a host-to-host communication or telecommunication session.